

140

SEARCH REQUEST FORM

Requestor's
Name: Leslie Wong Serial
Number: 091092696
Date: 5/20/99 Phone: 308-1979 Art Unit: 1761

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc.; if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Flavor / Flavour in combination with

N-ethyl-p-menthane-3-carboxamide

STAFF USE ONLY

Date completed: 6-20-99
Searcher: T. Saunders
Terminal time: 120
Elapsed time: 5
CPU time:
Total time: 125
Number of Searches:
Number of Databases: 6

Search Site

STIC

CM-1

Pre-S

Type of Search

N.A. Sequence

A.A. Sequence

Structure

Bibliographic

Vendors

IG

STN

Dialog

APS

Geninfo

SDC

DARC/Questel

Other

Wong, L. 09/092696

L1 1 SEA FILE=REGISTRY N-ETHYL-P-MENTHANE-3-CARBOXAMIDE/CN
L5 53038 SEA FILE=CAPLUS FLAV?/IT
L6 9 SEA FILE=CAPLUS L1 AND L5

=> s 11 (1) 15

L7 33 L1
5 L1 (L) L5

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 1999 ACS
 AN 1999:219940 CAPLUS
 DN 130:251559
 TI Chewing gum containing physiological cooling agents
 IN Wolf, Fred R.; McGrew, Gordon N.; Hook, Jeffrey S.; Richey, Lindell C.;
 Patel, Mansukh M.; Yatka, Robert J.; Witkewitz, David L.; Greenberg,
 Michal J.; Tyrpin, Henry T.; Nelson, Kathryn T.
 PA Wm. Wrigley Jr. Company, USA; et al.
 SO PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A23G003-30
 ICS A23L001-22; A23L002-56; A61K009-68
 CC 17-6 (Food and Feed Chemistry)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9913734	A1	19990325	WO 97-US16731	19970918
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	WO 9913870	A1	19990325	WO 97-US24166	19971229
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			

PRAI WO 97-US16731 19970918

AB A method for producing a chewing gum, as well as the chewing gum so produced, incorporates a physiol. cooling agent, such as acyclic carboxamide, or combinations of physiol. cooling agents. In another embodiment a combination of physiol. cooling agents is made in a modified

release structure. The modified release/cooling agents combination is preferably obtained by phys. modifying the properties of the combination of cooling agents by coating and drying. When incorporated into gum, these particles are adapted to enhance the shelf stability of the flavor

and/or produce a modified release when the gum is chewed. In another embodiment, the physiol. cooling agent is present with menthol and menthone. In another embodiment, coated chewing gum has a coating that comprises a physiol. cooling agent. The preferred inventive chewing gum provides a high flavor impact in which the harsh notes normally assocd. with such a high flavor impact have been reduced or eliminated. In addn.,

the preferred inventive gum provides a clean, high-quality, cooling chewing gum coating with xylitol or other polyols where xylitol has been reduced in concn. or eliminated.

ST chewing gum cool flavor modified release

IT Cinnamon (spice)

Clove (Syzygium aromaticum)

Ginger

Pepper (spice)

(chewing gum contg. cool flavor agents and spicy hot flavor)

IT Gelatins, biological studies

Shellac

Zeins

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(chewing gum contg. encapsulated cool flavor agents contg.)

IT Chewing gum

Flavor

Flavoring materials

(chewing gum contg. modified-release cool flavor agents)

IT Amides, biological studies

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(chewing gum contg. modified-release cool flavor agents)

IT Polyhydric alcohols

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(coated chewing gum contg. cool flavor agents and polyols)

IT Capsicum annuum annuum

(longum group; chewing gum contg. cool flavor agents and spicy hot flavor)

IT Clay minerals

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(pharmasorb; chewing gum contg. encapsulated cool flavor agents

contg.)

IT Essential oils

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(wintergreen; chewing gum contg. modified-release cool flavor agents)

IT 51115-67-4, WS 23

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(WS 23; chewing gum contg. modified-release cool flavor agents)

IT 119-36-8, Methyl salicylate

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(chewing gum contg. cool flavor agents and spicy hot flavor)

IT 471-34-1, Calcium carbonate, biological studies 7631-86-9, Silica,
biological studies 9003-20-7, Polyvinyl-acetate 9004-57-3, Ethyl
cellulose 9004-65-3, Hydroxypropylmethyl cellulose 9005-25-8,

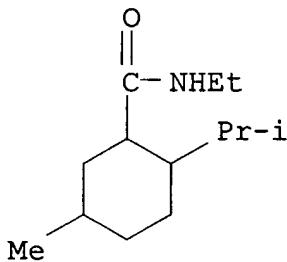
Starch,

biological studies 9050-36-6, Maltodextrin

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(chewing gum contg. encapsulated cool flavor agents contg.)

IT 57-13-6D, Urea, derivs. 63-74-1D, Sulphonamide, derivs. 89-78-1,

Menthol 89-80-5 Menthone 99-82-1D, p-Menthane, derivs.
 1122-56-1D,
 Cyclohexanecarboxamide, derivs. 17162-29-7, Methyl lactate
 30350-73-3D, Menthanol, derivs. 39711-79-0, N-Ethyl-p-menthane-3-
 carboxamide 67785-70-0 77341-67-4 87061-04-9, 3-1-Methoxypropane-
 1,2-diol
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (chewing gum contg. modified-release cool flavor agents)
 IT 50-70-4, Sorbitol, biological studies 87-99-0, Xylitol 149-32-6,
 Erythritol 585-86-4, Lactitol 585-88-6, Maltitol 13718-94-0D,
 Isomaltulose, hydrogenated
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (coated chewing gum contg. cool flavor agents and polyols)
 IT 9004-34-6, Cellulose, biological studies
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (microcryst.; chewing gum contg. encapsulated cool flavor agents
 contg.)
 IT 39711-79-0, N-Ethyl-p-menthane-3-carboxamide
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (chewing gum contg. modified-release cool flavor agents)
 RN 39711-79-0 CAPLUS
 CN Cyclohexanecarboxamide, N-ethyl-5-methyl-2-(1-methylethyl)- (9CI) (CA
 INDEX NAME)



L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 1999 ACS
 AN 1999:133615 CAPLUS
 DN 130:181793
 TI Enhanced flavoring compositions containing N-ethyl-p-menthane-3-
 carboxamide and method of making and using same
 IN Barcelon, Shirley Ann; Kiefer, Jesse J.; Olaya, Hector; Luo, Shiuh John
 PA Warner-Lambert Company, USA
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A23G003-30
 ICS A23G003-00; A23L001-226
 CC 17-6 (Food and Feed Chemistry)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9907235	A1	19990218	WO 98-US16578	19980811
	W:	AL, AU, BA, BB, BG, BR, CA, CN, CZ, EE, GE, HR, HU, ID, IL, IS,			

JP, KR, L~~C~~, LK, LR, LT, LV, MG, MK, MN~~C~~, MX, NO, NZ, PL, RO, SG,
SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9887769 A1 19990301 AU 98-87769 19980811

PRAI US 97-55447 19970811
WO 98-US16578 19980811

AB Enhanced flavoring compns. contg. at least one flavoring agent and an effective amt. of N-ethyl-p-menthane-3-carboxamide are provided. The N-ethyl-p-menthane-3-carboxamide is present at 0.04-2.2 % of the enhanced

flavoring compn. The invention further concerns chewing gums and confectionary compns. contg. a flavoring effective amt. of the enhanced flavoring compns.

ST confectionary flavor enhancer menthanecarboxamide

IT Candy

Chewing gum

Confectionery

Flavor

(enhanced flavoring compns. contg. N-ethyl-p-menthane-3-carboxamide

for

confectionary)

IT Condiments

(flavor-enhancing; enhanced flavoring compns. contg.
N-ethyl-p-menthane-3-carboxamide for confectionary)

IT Flavoring materials

(fruit flavors; enhanced flavoring compns. contg.

N-ethyl-p-menthane-3-

carboxamide for confectionary)

IT Flavoring materials

(herbal and sweet and spice; enhanced flavoring compns. contg.
N-ethyl-p-menthane-3-carboxamide for confectionary)

IT 39711-79-0, WS 3

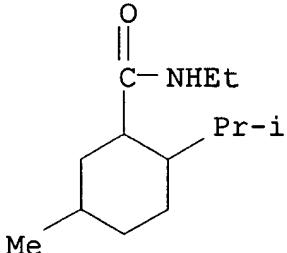
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(WS 3; enhanced flavoring compns. contg. N-ethyl-p-menthane-3-
carboxamide for confectionary)

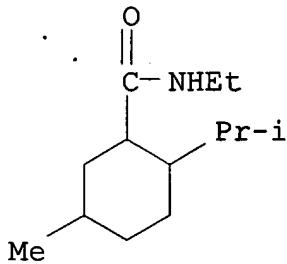
IT 39711-79-0, WS 3

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(WS 3; enhanced flavoring compns. contg. N-ethyl-p-menthane-3-
carboxamide for confectionary)

RN 39711-79-0 CAPLUS

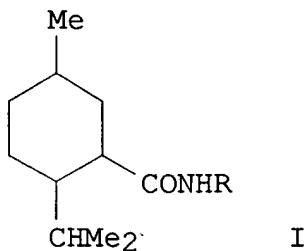
CN Cyclohexanecarboxamide, N-ethyl-5-methyl-2-(1-methylethyl)- (9CI) (CA
INDEX NAME)





L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 1999 ACS
 AN 1997:259269 CAPLUS
 DN 126:242635
 TI Stable dentifrices containing salicylic acids and/or cinnamaldehyde and p-menthane derivatives with enhanced flavor
 IN Shimada, Toshia
 PA Lion Corp, Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-16
 ICS C11B009-00; A23G003-00; A23G003-30; A61K007-46
 CC 62-7 (Essential Oils and Cosmetics)
 Section cross-reference(s): 63
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09040538	A2	19970210	JP 95-214273	19950731
OS	MARPAT 126:242635				
GI					



I

AB The dentifrices contain N-substituted-p-menthane-3-carboxamides I (R = C1-10 alkyl, alkenyl) in combination with salicylic acids and/or cinnamaldehyde (II). A dentifrice contg. 1.0 wt.% compn. (contg. Me salicylate 10, II 10, peppermint oil 50, and EtOH to 100 wt.%) and 0.1 wt.% N-ethyl-p-menthane-3-carboxamide had a good flavor and showed no discoloration nor sepn. during storage at 40.degree. for 1 mo.
 ST salicylate dentifrice stability flavor menthanecarboxamide;
 cinnamaldehyde
 dentifrice stability flavor menthanecarboxamide
 IT Dentifrices

(chewing gums; stable dentifrices with enhanced flavor contg.

salicylic

acids and/or cinnamaldehyde and N-substituted-p-menthane-3-carboxamides)

IT Chewing gum

(dentifrices; stable dentifrices with enhanced flavor contg.

salicylic

acids and/or cinnamaldehyde and N-substituted-p-menthane-3-carboxamides)

IT Dentifrices

Flavoring materials

Mouthwashes

(stable dentifrices with enhanced flavor contg. salicylic acids
and/or

cinnamaldehyde and N-substituted-p-menthane-3-carboxamides)

IT 39668-82-1 **39711-79-0**, N-Ethyl-p-menthane-3-carboxamide

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
PRP (Properties); BIOL (Biological study); USES (Uses)

(stable dentifrices with enhanced flavor contg. salicylic
acids and/or cinnamaldehyde and N-substituted-p-menthane-3-
carboxamides)

IT 104-55-2, Cinnamaldehyde 119-36-8, Methyl salicylate

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL
(Biological
study); USES (Uses)

(stable dentifrices with enhanced flavor contg. salicylic acids
and/or

cinnamaldehyde and N-substituted-p-menthane-3-carboxamides)

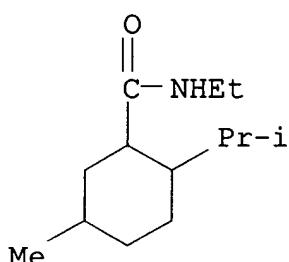
IT **39711-79-0**, N-Ethyl-p-menthane-3-carboxamide

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
PRP (Properties); BIOL (Biological study); USES (Uses)

(stable dentifrices with enhanced flavor contg. salicylic
acids and/or cinnamaldehyde and N-substituted-p-menthane-3-
carboxamides)

RN 39711-79-0 CAPLUS

CN Cyclohexanecarboxamide, N-ethyl-5-methyl-2-(1-methylethyl)- (9CI) (CA
INDEX NAME)



L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 1999 ACS

AN 1996:612680 CAPLUS

DN 125:230199

TI Flavored denture cleanser compositions

IN Lietzenmayer, Margaret Carson; McDaniel, Jerry William; Sanker, Lowell

PA Alan; Upson, James Frigg
USA
SO Can. Pat. Appl., 17 pp.

CODEN: CPXXEB

DT Patent

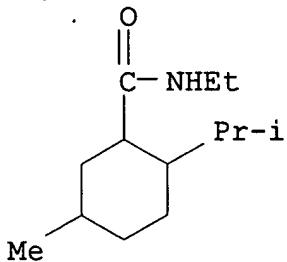
LA English

IC ICM A61K007-30

CC 62-4 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2164895	AA	19960620	CA 95-2164895	19951211
PRAI	US 94-359122		19941219		
AB	The subject invention encompasses a flavored denture cleanser compn. comprising 0.1-50 % of a dry flavor powder system contg. 0.01-60 % one or				
	more flavors, and 40-99.99% of one or more carriers, wherein the flavors delivered by the dry flavor powder system are retained on a denture				
after	cleaning with the compn. A flavor mixt. contg. menthol 62.5, anise 31.25,				
	and ionone 6.25 % was used in formulating a denture-cleansing tablet contg. Na perborate.				
ST	denture cleanser bleaching agent flavor mixt				
IT	Bleaching agents (flavored denture cleanser compns.)				
IT	Flavoring materials (anise, flavored denture cleanser compns.)				
IT	Flavoring materials (citrus, flavored denture cleanser compns.)				
IT	Dentifrices (denture cleansers, tablets, flavored denture cleanser compns.)				
IT	Acids, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (peroxy, flavored denture cleanser compns.)				
IT	Flavoring materials (spearmint, flavored denture cleanser compns.)				
IT	75-18-3, Dimethylsulfide 78-70-6, Linalool 89-80-5, Menthone 89-81-6, Piperitone 89-83-8, Thymol 97-53-0, Eugenol 104-46-1, Anethole 470-82-6, Eucalyptol 494-90-6, Menthofuran 1490-04-6, Menthol 1565-81-7, 3-Decanol 5947-36-4, Pinocarveol 6485-40-1, L-Carvone 7632-04-4, Sodium perborate 22092-54-2 39711-79-0, N-Ethyl-p-menthane-3-carboxamide 56646-30-1, Spicatone 87061-04-9 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (flavored denture cleanser compns.)				
IT	39711-79-0, N-Ethyl-p-menthane-3-carboxamide RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (flavored denture cleanser compns.)				
RN	39711-79-0 CAPLUS				
CN	Cyclohexanecarboxamide, N-ethyl-5-methyl-2-(1-methylethyl)- (9CI) (CA INDEX NAME)				



L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 1999 ACS

AN 1976:3495 CAPLUS

DN 84:3495

TI Modification of flavor-conferring materials

IN Rowsell, David G.; Watson, Hugh Robert

PA Wilkinson Sword Ltd., Engl.

SO Ger. Offen., 91 pp.

CODEN: GWXXBX

DT Patent

LA German

IC A23L

CC 17-13 (Foods)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2503555	A1	19750814	DE 75-2503555	19750129
	ZA 7500394	A	19760128	ZA 75-394	19750121
	CA 1055772	A1	19790605	CA 75-218377	19750121
	AU 7577548	A1	19760729	AU 75-77548	19750123
	JP 50111264	A2	19750901	JP 75-12289	19750129
	GB 1457671	A	19761208	GB 74-4587	19750129
	NL 7501135	A	19750804	NL 75-1135	19750130
	DK 7500315	A	19750922	DK 75-315	19750130
	FR 2272610	A1	19751226	FR 75-2883	19750130
	BE 825025	A1	19750731	BE 75-2054121	19750131
PRAI	GB 74-4587		19740131		
	GB 74-17088		19740418		

AB A large no. of compds. are tested for their ability to modify and improve

the flavor of food, beverages, tobacco, mouthwashes, and similar materials. Many of the compds. produce a cool sensation in the mouth.

In

an example, N-(p-methoxyphenyl)-p-menthane-3-carboxamide [57233-03-1] added to powd. coffee at 1 ppm strengthened the flavor of the coffee and diminished its bitter flavor.

ST flavoring material food beverage; tobacco flavoring material

IT Flavoring materials

IT Beverages

Coffee

Mouthwashes

Tobacco

(flavoring materials for)

IT 108-82-7 704-44-9 2650-40-0 5827-74-7 13491-79-7 17257-33-9

10368-87-1	18597-92-5	19549-77-0	19780-3-5	19889-37-3
21570-35-4	22414-77-3	23079-28-9	34026-01-2	38705-98-5
39668-74-1	39668-79-6	39668-81-0	39668-82-1	39668-86-5
39711-79-0	41417-68-9	49633-73-0	51115-67-4	51115-68-5
51115-71-0	51200-81-8	51200-95-4	51210-01-6	51478-24-1
51478-25-2	52316-83-3	52910-94-8	52910-95-9	52910-98-2
52911-01-0	52911-03-2	52911-04-3	52911-07-6	52911-09-8
52911-11-2	52911-12-3	52911-43-0	53463-23-3	55719-99-8
55720-02-0	56470-72-5	56470-73-6	56470-77-0	56470-79-2
56470-81-6	56470-82-7	56470-83-8	56470-84-9	56471-13-7
56471-26-2	56471-44-4	57233-03-1	57233-04-2	57233-05-3
57233-06-4	57233-07-5	57233-08-6	57233-09-7	57233-10-0
57233-11-1	57233-12-2	57233-13-3	57233-14-4	57233-15-5
57233-16-6	57233-17-7	57233-18-8	57233-19-9	57233-20-2
57233-21-3	57233-22-4	57233-23-5	57233-24-6	57233-25-7
57233-26-8	57233-27-9	57233-28-0	57233-29-1	57233-30-4
57233-31-5	57233-32-6	57233-33-7	57233-34-8	57233-35-9
57233-36-0	57233-37-1	57233-38-2	57233-39-3	57233-40-6
57233-41-7	57233-42-8	57233-43-9	57233-44-0	57233-45-1
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57233-51-9	57327-29-4			

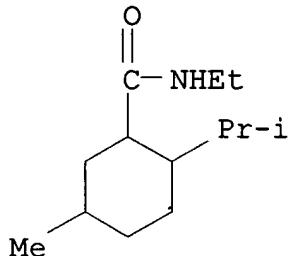
RL: BIOL (Biological study)
 (flavoring material)

IT **39711-79-0**

RL: BIOL (Biological study)
 (flavoring material)

RN 39711-79-0 CAPLUS

CN Cyclohexanecarboxamide, N-ethyl-5-methyl-2-(1-methylethyl)- (9CI) (CA INDEX NAME)



Wong, L. 09/092696

L1 1 SEA FILE=REGISTRY N-ETHYL-P-MENTHANE-3-CARBOXAMIDE/CN
L5 53038 SEA FILE=CAPLUS FLAV?/IT
L7 5 SEA FILE=CAPLUS L1 (L) L5
L18 4196 SEA FILE=REGISTRY ABB=ON PLU=ON CYCLOHEXANECARBOXAMIDE
L19 2230 SEA FILE=CAPLUS ABB=ON PLU=ON L18
L20 6 SEA FILE=CAPLUS ABB=ON PLU=ON L19 (L) FLAV?
L21 1 SEA FILE=CAPLUS ABB=ON PLU=ON L20 NOT L7

=> d all hitstr

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 1999 ACS
AN 1982:178218 CAPLUS
DN 96:178218
TI Acylnicotines as tobacco flavorants
PA Japan Tobacco and Salt Public Corp., Japan; Yuki Gosei Kogyo Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

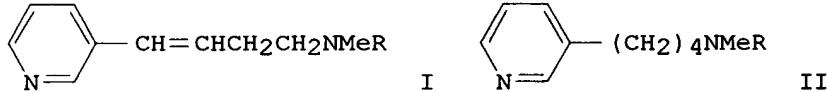
IC A24B015-40; C07D213-16

CC 11-7 (Plant Biochemistry)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57018973	A2	19820130	JP 80-94455	19800710
	JP 57031428	B4	19820705		

GI



AB N-Acyl-N-methyl-4-(3-pyridyl)-3-buten-1-amines I (R = acyl) and(or) N-acyl-N-methyl-4-(3-pyridyl)butylamines II (R = acyl) are tobacco flavorants. The synthesis of I and II are described. Thus, organoleptic tests showed a marked improvement in flavor and aroma of cigarettes by adding 10 ppm N-propionyl-m-nicotine.

ST acylnicotine tobacco flavorant

IT Tobacco products

(flavorants for, contg. nicotine derivs.)

IT 54-11-5 538-79-4

RL: RCT (Reactant)

(acylation of)

IT	23158-10-3P	23158-11-4P	81531-84-2P	81531-85-3P	81531-86-4P
	81531-87-5P	81531-88-6P	81531-89-7P	81531-90-0P	81531-91-1P
	81531-92-2P	81531-93-3P	81531-94-4P	81531-95-5P	81531-96-6P
	81531-97-7P	81531-98-8P	81531-99-9P	81538-86-5P	

RL: PREP (Preparation)

(prepn. of, as tobacco flavorant)

IT 75-36-5 79-03-8 98-88-4 102-92-1

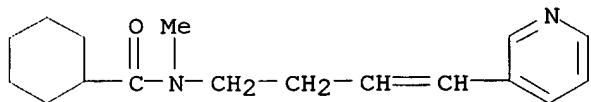
RL: RCT (Reactant)
(reaction of, with nicotine)

IT 81531-97-7P 81538-86-5P

RL: PREP (Preparation)
(prepn. of, as tobacco flavorant)

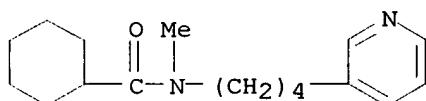
RN 81531-97-7 CAPPLUS

CN Cyclohexanecarboxamide, N-methyl-N-[4-(3-pyridinyl)-3-butenyl]- (9CI) (CA
INDEX NAME)



RN 81538-86-5 CAPPLUS

CN Cyclohexanecarboxamide, N-methyl-N-[4-(3-pyridinyl)butyl]- (9CI) (CA
INDEX NAME)



Wong, L. 09/092696

L14 19 SEA FILE=WPIDS ABB=ON PLU=ON N(L)ETHYL(L)P(L)MENTHANE (L)3(L)C
ARBOXAMIDE OR CYCLOHEXANECARBOXAMIDE
L15 4 SEA FILE=WPIDS ABB=ON PLU=ON FLAV? AND L14
L16 4 SEA FILE=WPIDS ABB=ON PLU=ON (WO9913734 OR WO9907235 OR
JP09040538 OR CA2164895 OR DE2303555)/PN
L17 3 SEA FILE=WPIDS ABB=ON PLU=ON L15 NOT L16

=> d all 1-

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L17 ANSWER 1 OF 3 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD
AN 1994-316553 [39] WPIDS
DNC C94-144184
TI Mint-**flavoured** chewing gum having reduced bitterness - is
produced from mint oil with l-menthol (partly) removed.
DC D13
IN BRODERICK, K; JOHNSON, S; RECORD, D; TYRPIN, H
PA (WRIL) WRIGLEY JR CO WM
CYC 47
PI WO 9421135 A1 940929 (9439)* EN 29 pp A23G003-30
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE
W: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU
LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA UZ VN
AU 9464919 A 941011 (9504) A23G003-30
US 5372824 A 941213 (9504) 10 pp A23G003-30
EP 690678 A1 960110 (9607) EN A23G003-30
R: DE FR GB
EP 690678 A4 960717 (9644) A23G003-30
EP 690678 B1 970514 (9724) EN 17 pp A23G003-30
R: DE FR GB
DE 69403202 E 970619 (9730) A23G003-30
AU 681135 B 970821 (9742) A23G003-30
CA 2158732 C 990202 (9916) A23G003-30
ADT WO 9421135 A1 WO 94-US3251 940324; AU 9464919 A AU 94-64919 940324; US
5372824 A US 93-37037 930325; EP 690678 A1 EP 94-912305 940324, WO
94-US3251 940324; EP 690678 A4 EP 94-912305 ; EP 690678 B1 EP
94-912305 940324, WO 94-US3251 940324; DE 69403202 E DE 94-603202 940324,
EP 94-912305 940324, WO 94-US3251 940324; AU 681135 B AU 94-64919 940324;
CA 2158732 C CA 94-2158732 940324
FDT AU 9464919 A Based on WO 9421135; EP 690678 A1 Based on WO 9421135; EP
690678 B1 Based on WO 9421135; DE 69403202 E Based on EP 690678, Based on
WO 9421135; AU 681135 B Previous Publ. AU 9464919, Based on WO 9421135
PRAI US 93-37037 930325
REP US 4708880; US 4948595; US 4980169; US 5030459; US 5128154; EP 113989; US
4613513
IC ICM A23G003-30
ICS C11B009-02
AB WO 9421135 A UPAB: 19941122
Mint-**flavoured** chewing gum having reduced bitterness comprises:
a water insol. base portion; a water soluble portion; and a mint
flavour agent including mint oil from which at least a portion of
l-menthol has been removed. A method of adding mint **flavour** to a
chewing gum and reducing bitterness associated with such **flavour**

comprises the step of removing at least a portion of menthol present in the mint flavour before adding the mint flavour to other components of the chewing gum.

ADVANTAGE - The method does not require the addn. of additional components to the chewing gum to offset any bitter notes.

Dwg.0/3

FS CPI
FA AB
MC CPI: D03-E09

L17 ANSWER 2 OF 3 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD
AN 1992-365960 [44] WPIDS
CR 97-280241 [25]
DNC C92-162439
TI Compsns. for treating indigestion, etc. - contg. 3-menthyl oxy-1,2-propane diol for cooling effect in throat, used e.g. to treat heart-burn, stomach ache, etc..
DC B05
IN RUSSELL, C M; UPSON, J G; RUSSELL, C
PA (PROC) PROCTER & GAMBLE CO
CYC 39
PI WO 9217164 A1 921015 (9244)* EN 13 pp A61K009-20
RW: AT BE CH DE DK ES FR GB GR IT LU MC NL OA SE
W: AT AU BB BG BR CA CH CS DE DK ES FI GB HU JP KP KR LK LU MG MN MW
NL NO PL RO RU SD SE
AU 9217614 A 921102 (9305)
US 5244670 A 930914 (9338) 4 pp A61K009-28
EP 578768 A1 940119 (9403) EN
R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE
CZ 9302260 A3 940413 (9422)
HU 65881 T 940728 (9431) A61K009-20
SK 9301212 A3 940706 (9432)
BR 9205827 A 940628 (9433)
JP 06506682 W 940728 (9434) 6 pp A61K009-20
EP 578768 B1 950927 (9543) EN 8 pp
R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE
DE 69205158 E 951102 (9549)
ES 2077417 T3 951116 (9551)
AU 665349 B 960104 (9608) A61K031-045
CZ 282105 B6 970514 (9726) A61K009-20
CA 2106215 C 970527 (9733) A61K009-20
HU 213203 B 970328 (9750) A61K047-10
ADT WO 9217164 A1 WO 92-US1981 920313; AU 9217614 A AU 92-17614 920313, WO 92-US1981 920313; US 5244670 A Cont of US 91-680459 910404, US 92-887128 920520; EP 578768 A1 EP 92-910661 920313, WO 92-US1981 920313; CZ 9302260 A3 CZ 93-2260 920313; HU 65881 T WO 92-US1981 920313, HU 93-2970 920313; SK 9301212 A3 WO 92-US1981 920313, SK 93-1212 931101; BR 9205827 A BR 92-5827 920313, WO 92-US1981 920313; JP 06506682 W JP 92-509679 920313, WO 92-US1981 920313; EP 578768 B1 EP 92-910661 920313, WO 92-US1981 920313; DE 69205158 E DE 92-605158 920313, EP 92-910661 920313, WO 92-US1981 920313; ES 2077417 T3 EP 92-910661 920313; AU 665349 B AU 92-17614 920313; CZ 282105 B6 WO 92-US1981 920313, CZ 93-2260 920313; CA 2106215 C CA 92-2106215 920313; HU 213203 B WO 92-US1981 920313, HU 93-2970 920313
FDT AU 9217614 A Based on WO 9217164; EP 578768 A1 Based on WO 9217164; HU 65881 T Based on WO 9217164; BR 9205827 A Based on WO 9217164; JP 06506682 W Based on WO 9217164; EP 578768 B1 Based on WO 9217164; DE 69205158 E Based on EP 578768, Based on WO 9217164; ES 2077417 T3 Based on EP 578768; AU 665349 B Previous Publ. AU 9217614, Based on WO 9217164; CZ 282105 B6 Previous Publ. CZ 9302260, Based on WO 9217164; HU 213203 B Previous Publ. HU 65881, Based on WO 9217164
PRAI US 91-680459 910404; US 92-887128 920520
REP EP 80148; FR 2127011; US 4060091
IC ICM A61K009-20; A61K009-28; A61K031-045; A61K047-10
ICS A61K009-00; A61K033-06; A61K033-10; A61K033-24; A61K047-08

AB WO 9217164 A UPAB: 970626
Ingestible pharmaceutical compsns. comprise (a) at least one active agent for treating upper gastrointestinal tract distress and (b) one or more excipients, including 3-(1-methyloxy)-1,2-propanediol (I).

(I) creates a cooling sensation in the throat, so that the compsns. are perceived to be acting more rapidly than similar compsns. not contg. (I).

Pref. the compsns. comprise 25-60% active agent and 40-75% excipients, including 0.01-0.5 (esp. 0.02-0.2) wt.% (I). The active agent is an antacid (esp. CaCO₃), a gastric secretion inhibitor or a Bi cpd. The compsns. may also contain other cooling agents, esp. menthol or **N**-ethyl-p-menthane-3-carboxamide (II).

USE/ADVANTAGE - The compsns. may be used to treat heartburn, indigestion, stomach ache, et

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B05-A01B; B05-A02; B10-E04C; B12-J01; B12-J03

L17 ANSWER 3 OF 3 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD

AN 1977-88014Y [49] WPIDS

TI Tobacco products having cooling effect - contg. (N)-substd. (para)-menthane carboxamides.

DC D18 E15 P15

PA (WILK) WILKINSON SWORD LTD

CYC 1

PI US 4060091 A 771129 (7749)*

PRAI US 72-221755 720128; US 74-486565 740708

IC A24B003-12

AB US 4060091 A UPAB: 19930901

A tobacco or tobacco-contg. prod. comprises tobacco and an N-substd. p-methane carboxamine (I) which stimulated the cold receptors of the nervous system of the nasal or oral mucosa.

In (I), R' is H, or alkyl, cycloalkyl, cycloalkylalkyl, hydroxyalkyl, alkynyl, hydroxyalkynyl, acyloxyalkyl, alkoxyalkyl, aminoalkyl, acylaminoalkyl, carboxyalkyl or alkylcarbonylalkyl contg. <=25C. R'' is hydroxy, alkyl, cycloalkyl, cycloalkylalkyl, hydroxyalkyl, alkynyl, hydroxyalkynyl, acyloxyalkyl, alkylcarbonylalkyl, cong. <=25 C. When R1 is H, R11 may be benzyl, pyridyl or phenyl substd. by 1-4C alkyl, hydroxy, 1-4C alkoxy, nitro and halogen or R1 and R11 taken together with N represent a <=25C cyclic or heterocyclic gp.

(I) create a cool sensation but do not have a strong minty flavour and are storage stable. Pref. (I) include **N**-methyl-p-menthane-3-carboxamide, and

N-ethyl-p-menthane-3-carboxamide.

FS CPI GMPI

FA AB

MC CPI: D07-D; D10-A05; E07-D04; E07-H03; E10-B02E; E10-C04A; E10-D03A; E10-D03D

L32 ANSWER 1 OF 3 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD
AN 1999-180365 [15] WPIDS
CR 96-260794 [27]; 96-260795 [27]; 96-260796 [27]; 96-260797 [27];
96-260798 [27]; 96-260799 [27]; 96-260800 [27]; 96-260801 [27];
96-260802 [27]; 96-260803 [27]; 96-260804 [27]; 96-260805 [27];
96-260806 [27]; 96-301634 [31]; 96-310453 [32]
DNC C99-053024
TI Flavoring composition used in confectionery compositions - comprises
flavoring agent and N-ethyl-p-menthane-3-carboxamide.
DC B07 D13 E16
IN BARCELON, S A; KIEFER, J J; LUO, S J; OLAYA, H
PA (WARN) WARNER LAMBERT CO
CYC 70
PI WO 9907235 A1 990218 (9915)* EN 19 pp A23G003-30
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SZ UG ZW
W: AL AU BA BB BG BR CA CN CZ EE GE HR HU ID IL IS JP KR LC LK LR LT
LV MG MK MN MX NO NZ PL RO SG SI SK SL TR TT UA UZ VN YU
ADT WO 9907235 A1 WO 98-US16578 980811
PRAI US 97-55447 970811
IC ICM A23G003-30
ICS A23G003-00; A23L001-226
AB WO 9907235 A UPAB: 19990424
NOVELTY - N-ethyl-p-menthane-3-carboxamide is used to enhance the
flavoring agent in a flavoring composition. DETAILED DESCRIPTION -
Enhanced flavoring composition comprises at least 1 flavoring agent and
0.04-2.2 wt.% N-ethyl-p-menthane-3-carboxamide to enhance the flavoring
agent.
USE - The composition is used in confectionery compositions including
fondants, caramels, toffees, fudge, marshmallows, nougats, jams and
jellies, compressed tablet confections and lozenges and chewing gum.
ADVANTAGE - N-ethyl-p-menthane-3-carboxamide can be used at low
levels as a synergistic flavor modifier to enhance the flavor of flavoring
agents, giving sharper or brighter, punctuated, more defined and
longer-lasting flavor of the flavoring agent. The composition gives
confectioneries and chewing gums cooling sensations and breath-freshening
effects.
Dwg.0/0
FS CPI
FA AB; DCN
MC CPI: B10-D03; B14-E11; D03-E09; D03-H01B; D03-H01C

L32 ANSWER 2 OF 3 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD
AN 1996-268312 [27] WPIDS
DNC C96-085202
TI Oral compsn. e.g. toothpaste or mouthwash with improved taste - comprises
phosphate deriv., copper ion source and oral carrier, has anti-plaque and
anti-gingivitis properties..
DC B06 D21
IN SANKER, L A; UPSON, J G
PA (PROC) PROCTER & GAMBLE CO
CYC 66
PI WO 9615768 A1 960530 (9627)* EN 16 pp A61K007-16
RW: AT BE CH DE DK ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ
UG

W: AM AU BB BG BR BY CA CN CZ EE FI GE HU IS JP K0 KR KZ LK LR LT
LV MD MG MK MN X NO NZ PL RO RU SG SI SK TJ TM TT UA UZ VN

AU 9540160 A 960617 (9638) A61K007-16

US 5628986 A 970513 (9725) 7 pp A61K033-34

ADT WO 9615768 A1 WO 95-US14013 951027; AU 9540160 A AU 95-40160 951027; US 5628986 A Cont of US 94-341716 941118, US 96-632936 960416

FDT AU 9540160 A Based on WO 9615768

PRAI US 94-341716 941118; US 96-632936 960416

REP EP 512599; US 5244651; WO 9426243; WO 9507683

IC ICM A61K007-16; A61K033-34

ICS A23L001-22; A23L001-226; A61K007-22

AB WO 9615768 A UPAB: 19960710

Oral compsn. comprises: (i) 0.001-25% of at least one phosphate deriv. of formula (I); (ii) a copper ion source, pref. providing 1-800 ppm Cu ions and esp. Cu bis-glycinate and/or copper gluconate; and (iii) an oral carrier, pref. a liq. dentifrice carrier, such as a mouthwash carrier, esp. a toothpaste carrier. R = a coolant, sweetener or flavourant; R', R'' = R, adherent component, M+, M++, C+ or H; X, X', X'' = O, S or N. The phosphate deriv. = eugenyl monophosphate, vanillyl monophosphate, thymyl monophosphate and/or menthyl monophosphate, pref. eugenyl monophosphate or vanillyl monophosphate; n = 1-3.

The compsn. pref. comprises a flavouring agent such as anise, cassia, clove, anethole, dihydroanethole, estragole, menthol, peppermint, para-hydroxyphenylbutanone, ethyl maltol, phenylethyl alcohol, sweet birch, thymol, eugenol, eucalyptol, wintergreen, spearmint, cinnamic aldehyde, menthone, alpha-ionone, ethyl vanillin, vanillin, limonene, isoamylacetate, benzaldehyde, ethylbutyrate, cinnamaldehyde glycerol acetal, linalool and/or 1-carvone. The compsn. also comprises a cooling agent which may be 3-1-methoxypropane-1, 2-diol, N-ethyl-p-menthone-3-carboxamide and/or N-2,3-trimethyl-2-isopropylbutanamide. The compsn. also comprises a silica abrasive, a fluoride ion source (pref. sodium fluoride), a humectant and 0-30% ethanol. The carrier is a lozenge or chewing gum.

USE - The compsn. is a toothpaste, mouthrinse, liq. dentifrice, lozenge or gum used for providing antiplaque and antigingivitis benefits as well as being effective against other anaerobic infections and preventing mouth odour.

ADVANTAGE - The compsn. has improved taste and delays the onset of flavour.

Dwg.0/0

FS CPI

FA AB; GI; DCN

MC CPI: B05-A03A; B05-B01G; B12-M02A; B14-N06A; D08-A05; D08-B08

L32 ANSWER 3 OF 3 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD

AN 1994-316553 [39] WPIDS

DNC C94-144184

TI Mint-flavoured chewing gum having reduced bitterness - is produced from mint oil with 1-menthol (partly) removed.

DC D13

IN BRODERICK, K; JOHNSON, S; RECORD, D; TYRPIN, H

PA (WRIL) WRIGLEY JR CO WM

CYC 47

PI WO 9421135 A1 940929 (9439)* EN 29 pp A23G003-30

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE

W: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU

LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA UZ VN

AU 9464919 A 941011 (9504) A23G003-30

US 5372824 A 941213 (9504) 10 pp A23G003-30

EP 690678 A1 960110 (9607) EN A23G003-30

R: DE FR GB

EP 690678 A4 960717 (9644) A23G003-30

EP 690678 B1 970514 (9724) EN 17 pp A23G003-30

R: DE FR GB

DE 69403202 E 970619 (9730) A23G003-30
AU 681135 B 970821 (9742) A23G003-30
CA 2158732 C 990202 (9916) A23G003-30

ADT WO 9421135 A1 WO 94-US3251 940324; AU 9464919 A AU 94-64919 940324; US 5372824 A US 93-37037 930325; EP 690678 A1 EP 94-912305 940324, WO 94-US3251 940324; EP 690678 A4 EP 94-912305 ; EP 690678 B1 EP 94-912305 940324, WO 94-US3251 940324; DE 69403202 E DE 94-603202 940324, EP 94-912305 940324, WO 94-US3251 940324; AU 681135 B AU 94-64919 940324; CA 2158732 C CA 94-2158732 940324

FDT AU 9464919 A Based on WO 9421135; EP 690678 A1 Based on WO 9421135; EP 690678 B1 Based on WO 9421135; DE 69403202 E Based on EP 690678, Based on WO 9421135; AU 681135 B Previous Publ. AU 9464919, Based on WO 9421135

PRAI US 93-37037 930325

REP US 4708880; US 4948595; US 4980169; US 5030459; US 5128154; EP 113989; US 4613513

IC ICM A23G003-30
ICS C11B009-02

AB WO 9421135 A UPAB: 19941122
Mint-flavoured chewing gum having reduced bitterness comprises: a water insol. base portion; a water soluble portion; and a mint flavour agent including mint oil from which at least a portion of 1-menthol has been removed. A method of adding mint flavour to a chewing gum and reducing bitterness associated with such flavour comprises the step of removing at least a portion of 1-menthol present in the mint flavour before adding the mint flavour to other components of the chewing gum.
ADVANTAGE - The method does not require the addn. of additional components to the chewing gum to offset any bitter notes.
Dwg.0/3

FS CPI
FA AB
MC CPI: D03-E09

=> d que 128

L28 8 SEA FILE=WPIDS ABB=ON PLU=ON N(W)ETHYL(W)P(2W)CARBOX?

Wong. L. 09/09/26/96

L1 1 SEA FILE=REGISTRY N-ETHYL-P-MENTHANE-3-CARBOXAMIDE/CN
L12 1 SEA FILE=BIOSIS ABB=ON PLU=ON L1

=> d iall

L12 ANSWER 1 OF 1 BIOSIS COPYRIGHT 1999 BIOSIS
ACCESSION NUMBER: 1995:327931 BIOSIS
DOCUMENT NUMBER: PREV199598342231
TITLE: The effect of the cooling agent N-ethyl-P-menthane-3-carboxamide on citric acid-induced cough in guinea-pigs.
AUTHOR(S): Laude, E. A.; Grattan, T. J.; Morice, A. H.
CORPORATE SOURCE: Dep. Med. Pharmacol., Univ. Sheffield, Beech Hill Rd.,
Sheffield S10 2RX UK
SOURCE: British Journal of Pharmacology, (1994) Vol. 114, No. PROC.
SUPPL., pp. 307P.
Meeting Info.: British Pharmacological Society Meeting
London, England, UK December 14-16, 1994
ISSN: 0007-1188.
DOCUMENT TYPE: Conference
LANGUAGE: English
CONCEPT CODE: General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals *00520
Behavioral Biology - Animal Behavior *07003
Behavioral Biology - Conditioning *07005
Biochemical Studies - General 10060
Respiratory System - Physiology and Biochemistry *16004
Nervous System - Physiology and Biochemistry *20504
Pharmacology - Drug Metabolism; Metabolic Stimulators *22003
Pharmacology - Neuropharmacology *22024
BIOSYSTEMATIC CODE: Caviidae *86300
INDEX TERMS: Major Concepts
Behavior; Nervous System (Neural Coordination);
Chemicals & Biochemicals
INDEX TERMS: Pharmacology; Respiratory System (Respiration)
N-ETHYL-P-MENTHANE-3-CARBOXAMIDE; CITRIC ACID
INDEX TERMS: Miscellaneous Descriptors
ANALYTICAL METHOD; ANTITUSSIVE EFFECT; MEETING ABSTRACT;
MEETING POSTER; N-ETHYL-P-MENTHANE-3-CARBOXAMIDE;
PHARMACODYNAMICS; PHARMACOKINETICS
ORGANISM: Super Taxa
Caviidae: Rodentia, Mammalia, Vertebrata, Chordata,
Animalia
ORGANISM: Organism Name
Caviidae (Caviidae)
ORGANISM: Organism Superterms
animals; chordates; mammals; nonhuman vertebrates; nonhuman mammals; rodents; vertebrates
REGISTRY NUMBER: 39711-79-0 (N-ETHYL-P-MENTHANE-3-CARBOXAMIDE)
77-92-9 (CITRIC ACID)

Wong L. 09/092696

Set Items Description
S1 1 CYCLOHEXANECARBOXAMIDE OR N(1W)ETHYL(1W)P(1W)METHANE(1W)3(-
 1W)CARBOXAMIDE
? t s1/9/all

1/9/1
DIALOG(R)File 53:FOODLINE(R): Food Science & Technology
(c) 1999 LFRA. All rts. reserv.

00113307 FOODLINE ACCESSION NUMBER: 102634
Cyclohexanecarboxamides having a physiological cooling effect and
compositions containng them.
Rowsell D G
PATENT ASSIGNEE: Wilkinson Sword Limited
PATENT: GB 1422998
LANGUAGE: English
DOCUMENT TYPE: Patent
FOODLINE UPDATE CODE: 19801001
DESCRIPTORS: APPLICATIONS; C1 DIETHYL 2 5 DIMETHYL CYCLOHEXANECARBOXAMIDE;
C3 DIETHYL PARA MENTHANE 3 CARBOXAMIDE; CONCENTRATES; CONFECTERY;
COOL; COOLING AGENTS; CYCLOHEXANECARBOXAMIDE;
CYCLOHEXANECARBOXYAMIDE; DIETHYL DIMETHYL CYCLOHEXANECARBOXAMIDE;
DIETHYL MENTHANE CARBOXAMIDE; DIETHYL MENTHANE CARBOXYAMIDE; FLAVOUR;

Wong, L. 09/09/696

3/9/2

DIALOG(R) File 51:Food Sci.&Tech.Abs
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00625643 91-07-a0012 SUBFILE: FSTA

Enantiodifferentiation of GAMMA- and DELTA-lactones by gas chromatographic separation of diastereomeric carbamoyloxy carboxamide derivatives.

Engel, K. H.; Albrecht, W.; Heidlas, J.
Inst. fuer Biotech., Fachgebiet Chem-Tech. Analyse, Tech. Univ. Berlin,
D-1000 Berlin 65, Federal Republic of Germany

Journal of Agricultural and Food Chemistry 1990 , 38 (1) 244-247

NOTE: 25 ref.

DOCUMENT TYPE: Journal Article ISSN: 0021-8561

LANGUAGE: English

Enantiodifferentiation of chiral GAMMA- and DELTA-lactones (important flavour compounds) was achieved by capillary GC separation of diastereomeric 4- and 5-((R)-((1-phenylethyl)carbamoyl)oxy)N-butycarboxamides. The derivatization procedure involves ring-opening of lactones to hydroxycarboxamides by heating with butylamine, and subsequent conversion to diastereomeric carbamates by reaction with (R)-(+)-1-phenylethyl isocyanate. High separation factors were determined for the complete series of C5-C12 GAMMA-lactones and C6-C12 DELTA-lactones, naturally occurring (trace) constituents of many fruits and vegetables. (AS(DIH))

DESCRIPTORS (HEADINGS): Lactones; Gas liquid chromatography; Fruits;
Vegetables

DESCRIPTORS: GC; FOODS

GENERAL DESCRIPTORS: Flavour compounds; Analytical techniques

SECTION HEADINGS: Food sciences (SC=a, 9201-present)

? ds

Set	Items	Description
S1	0	N-ETHYL-P-METHANE-3-CARBOXAMIDE OR CYCLOHEXANE CARBOXAMIDE OR N-ETHYL-5-METHYL-2-(1-METHYLETHYL)
S2	14	"CARBOXAMIDE"
S3	2	FLAV? AND S2

Wong, L. 09/092696

Set Items Description
S1 0 N-ETHY-P-METHANE-3-CARBOXAMIDE OR CYCLOHEXANECARBOXAMIDE OR
N-ETHYL-5-METHYL-2-(1-METHYLETHYL)
S2 14 "CARBOXAMIDE"
S3 2 FLAV? AND S2
? s n(w)ethyl(w)p(w)menthane(w)3(w)carboxamide

31900 N
7440 ETHYL
38630 P
13 MENTHANE
130133 3
14 CARBOXAMIDE
S4 1 N(W)ETHYL(W)P(W)MENTHANE(W)3(W)CARBOXAMIDE
? t s4/free/all

4/9/1

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Stay cool!

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Applications of 2 physiological coolants marketed by Sterling Organics, and developed by the Wilkinson Sword Co. are given. It is suggested that the products WS3 (N-ethyl-p-menthane-3-carboxamide) and WS23 (N,2,3-trimethyl-2-isopropyl butanamide) may be used in alcoholic and non-alcoholic beverages, and in confectionery e.g. boiled sweets, chewing gum and ice cream. The compounds are described as having low self-taste and self-odour, high cooling activity and no side effects such as tingling, stinging or burning sensations. (SB)

DESCRIPTORS: Additives--foods, coolant compounds applications in

SECTION HEADINGS: Food additives, spices & condiments (SC=t)